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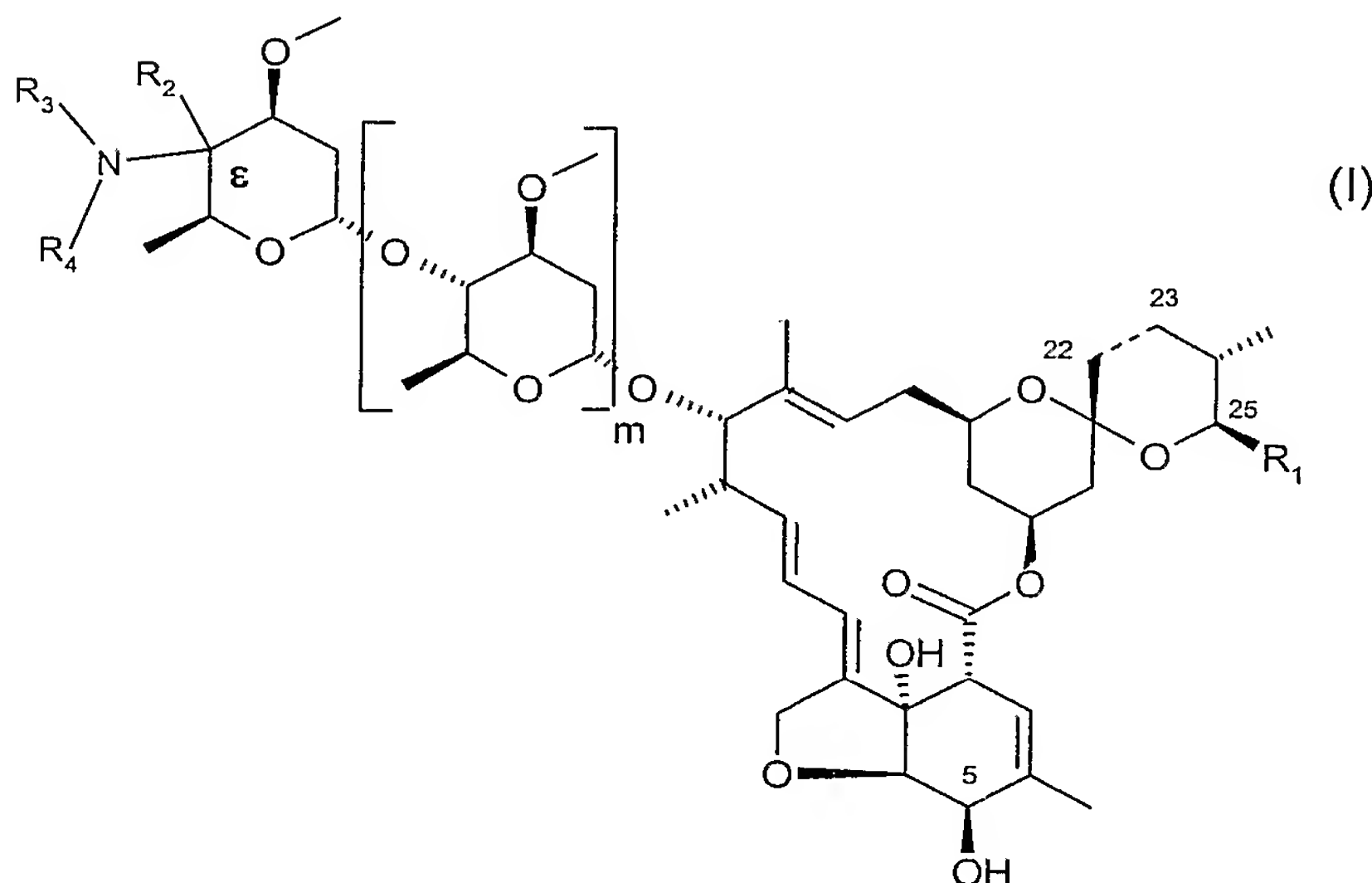
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(54) Title: AVERMECTIN AND AVERMECTIN MONOSACCHARIDE SUBSTITUTED IN THE 4''- AND 4'- POSITION RESPECTIVELY



(57) Abstract: A compound of the formula (I) wherein the bond between carbon atoms 22 and 23 indicated with a broken line is a single or double bond, m is 0 or 1, R<sub>1</sub> represents a C<sub>1</sub>-C<sub>12</sub>alkyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl or C<sub>2</sub>-C<sub>12</sub>alkenyl group, R<sub>2</sub> represents a hydrocarbyl group or a substituted hydrocarbyl group, and R<sub>3</sub> and R<sub>4</sub> represent, independently of each other, hydrogen or a chemical constituent, or either R<sub>2</sub> and R<sub>3</sub> together or R<sub>3</sub> and R<sub>4</sub> together represent a three- to seven-membered alkylene or a four- to seven-membered alkenylene bridge, for each of which at least one, preferably a CH<sub>2</sub> group may be replaced by O, S or NR<sub>6</sub> where R<sub>6</sub> represents hydrogen or a hydrocarbyl group or a substituted hydrocarbyl group; or, if appropriate, an E/Z isomer and/or tautomer of the compound of formula

(I), in each case in free form or in salt form.



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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*